ELSEVIER

Physica C 292 (1997) 339–341

PHYSICA C

Author Index to Volume 292

Adachi, S., see Wu, X.-J., **292** (1997) 89
Altshuler, E. and R. Mulet, The azimuthal critical state of a superconducting hollow cylinder, **292** (1997) 39
Altshuler, E., see Muné, P., **292** (1997) 48
Asaf, U., see Felner, I., **292** (1997) 97

Babcock, S.E., see Vargas, J.L., **292** (1997) 1
Bach, H., see Brinkmann, M., **292** (1997) 104
Baudenbacher, F., see Quinton, W.A.J., **292** (1997) 243
Bishop, A.R., see Tyson, T.A., **292** (1997) 163
Bock, A., see Dieckmann, N., **292** (1997) 133
Brinkmann, M., H. Bach and K. Westerholt, Electrical resistivity study of metallic $Pr_{2-x}Ce_xCuO_{4+\delta}$-single crystals over a broad concentration and temperature range, **292** (1997) 104
Bulygin, A.S., see Shmelev, G.M., **292** (1997) 73

Cai, C.B., see Ge, Y., **292** (1997) 59
Cao, L.Z., see Jin, H., **292** (1997) 211
Carretta, P., NMR evidence for the influence of CuO chains ordering on the opening of the spin-gap in $YBa_2Cu_3O_{6+x}$, **292** (1997) 286
Chandran, M., Critical state in thin superconductors: a Josephson junction array analogy, **292** (1997) 147
Changkang, C., see Hussey, N.E., **292** (1997) 218
Chen, L., see Huang, M.Q., **292** (1997) 177
Chen, W.M., see Wu, X.S., **292** (1997) 248
Chew, D., see Tyson, T.A., **292** (1997) 163
Chmaissem, O., P. Guptasarma, U. Welp, D.G. Hinks and J.D. Jorgensen, Effect of Re substitution on the defect structure, and superconducting properties of $(Hg_{1-x}Re_x)Ba_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ $(n = 2, 3, 4)$, **292** (1997) 305
Cooper, J.R., see Hussey, N.E., **292** (1997) 218
Curzon, A.E., F. Hamed and S. Gygax, Current and potential distributions in highly anisotropic superconductors with inclusions, **292** (1997) 189

Dabkowska, H.A., see McConnell, A.W., **292** (1997) 233
Dabkowski, A., see McConnell, A.W., **292** (1997) 233
Daturi, M., see Letouzé, F., **292** (1997) 32
Dieckmann, N., S. Friemel, A. Bock, U. Merkt, R. Gerber and R.P. Huebener, Equivalence of LTSLM and LTSEM analyses: study of a $YBa_2Cu_3O_7$ multi-layer device, **292** (1997) 133
Ding, Q., see Ge, Y., **292** (1997) 59
Ding, S.Y., see Ge, Y., **292** (1997) 59
Dzhafarov, T.D. and M. Yilmazlar, The effect of Ag electromigration on the properties of BiPbSrCaCuO superconductors, **292** (1997) 140

Eastell, C.J., see Kováč, P., **292** (1997) 322

Federici, J.F., see Tyson, T.A., **292** (1997) 163
Felner, I. and U. Asaf, Superconductivity and weak ferromagnetism in $Eu_{1.4}Ce_{0.6}Ru_{1-x}Fe_xSr_2Cu_2O_{10-\delta}$, **292** (1997) 97
Feng, J., see Li, J.Q., **292** (1997) 295
Friemel, S., C. Pasquier and D. Jérome, *C*-axis transport in the intrinsically layered superconductor κ-(BEDT-TTF)$_2$Cu(NCS)$_2$: interplay between Josephson and quasiparticle tunneling, **292** (1997) 273
Friemel, S., see Dieckmann, N., **292** (1997) 133
Fu, Y.X., see Ge, Y., **292** (1997) 59
Furenlid, L., see Tyson, T.A., **292** (1997) 163

Ge, Y., S.Y. Ding, Q. Ding, C. Ren, L. Qiu, F.Y. Ling, X.X. Yao, Y.X. Fu and C.B. Cai, Harmonic ac susceptibilities for textured $YBa_2Cu_3O_7$, **292** (1997) 59
Gerber, R., see Dieckmann, N., **292** (1997) 133
Gopalakrishnan, I.K., see Gupta, S., **292** (1997) 183
Goringe, M.J., see Kováč, P., **292** (1997) 322
Grovenor, C.R.M., see Kováč, P., **292** (1997) 322
Guan, W., see Kao, H.-C.I., **292** (1997) 53
Gupta, S., R. Suba, B.D. Padalia, O. Prakash, R.M. Nayak, I.K. Gopalakrishnan and J.V. Yakhmi, X-ray absorption spectroscopic studies of the T′-type $Gd_{1.85-x}Pr_xCe_{0.15}CuO_y$ system, **292** (1997) 183
Guptasarma, P., see Chmaissem, O., **292** (1997) 305
Gygax, S., see Curzon, A.E., **292** (1997) 189

Hamed, F., see Curzon, A.E., **292** (1997) 189
Hao, L. and J.C. Macfarlane, Estimation of the noise temperature of Y–Ba–Cu–O grain boundary Josephson junctions, **292** (1997) 315
Hervieu, M., see Letouzé, F., **292** (1997) 32
Hinks, D.G., see Chmaissem, O., **292** (1997) 305
Hodby, J.W., see Hussey, N.E., **292** (1997) 218
Holmlund, K. and P. Minnhagen, *I–V* characteristics for 2D superconductors from simulations of the 2D Coulomb gas: density dependence and exponents, **292** (1997) 255

Huang, M.Q., L. Chen, T. Yang, J.C. Nie, P.J. Wu and Z.X. Zhao, A new preparation technique for $YBa_2Cu_3O_7$ bicrystal junctions, **292** (1997) 177
Huebener, R.P., see Dieckmann, N., **292** (1997) 133
Hung, K.C., see Li, J.Q., **292** (1997) 295
Hušek, I., see Kováč, P., **292** (1997) 322
Hussey, N.E., J.R. Cooper, C. Changkang and J.W. Hodby, Dimensional cross-over in the superconducting state of oxygen-deficient $YBa_2Cu_3O_{6.7}$, **292** (1997) 218

Ishida, Y., T. Kimura, K. Kakimoto, Y. Yamada, Z. Nakagawa, Y. Shiohara and A.B. Sawaoka, Liquid phase epitaxy of $YBa_2Cu_3O_x$ on MgO substrates with seed films, **292** (1997) 264

Jérome, D., see Friemel, S., **292** (1997) 273
Jiang, S.S., see Wu, X.S., **292** (1997) 248
Jin, H., K.Q. Ruan, C.Y. Wang, J. Zuo, C.Y. Xu, L.Z. Cao and Y.H. Zhang, Ion size effect on the charge transfer and Raman spectrum of the $(Pb_{0.65}Sr_{0.35})Sr_2(R_{0.5}Ca_{0.5})Cu_2O_y$ compound, **292** (1997) 211
Jin, X., see Wu, X.S., **292** (1997) 248
Jorgensen, J.D., see Chmaissem, O., **292** (1997) 305

Kaiser, D.L., see Vargas, J.L., **292** (1997) 1
Kakimoto, K., see Ishida, Y., **292** (1997) 264
Kao, H.-C.I., F.C. Yu and W. Guan, Hole localization in Pr-doped $RBa_2Cu_3O_{7-y}$ systems, **292** (1997) 53
Karlemo, T., M. Karppinen, L. Niinistö, J. Lindén and M. Lippmaa, Annealing characteristics and calcium doping effects in the superconducting $Pb_2CuSr_2[Eu_{1-x}Ca_x]Cu_2O_{8+\delta}$ system, **292** (1997) 225
Karppinen, M., see Karlemo, T., **292** (1997) 225
Kartsovnik, M.V., see Logvenov, G.Yu., **292** (1997) 279
Kim, J.S. and E.P. Kvam, Study on the possible structural transition in $Nd_{2-x}Ce_xCuO_{4-\delta}$, **292** (1997) 203
Kimura, T., see Ishida, Y., **292** (1997) 264
Kováč, P., C.J. Eastell, W. Pachla, I. Hušek, H. Marciniak, C.R.M. Grovenor and M.J. Goringe, Structure and current transport mechanisms in Bi(2223)/Ag tapes, **292** (1997) 322
Kuzovlev, Yu.E., Thermally induced magnetic vortex nucleation near the surface of type II superconductor, **292** (1997) 117
Kvam, E.P., see Kim, J.S., **292** (1997) 203

Lam, C.C., see Li, J.Q., **292** (1997) 295
Lee, G.S., Multiple spin–orbit scattering and Josephson tunneling between s-wave and d-wave superconductors, **292** (1997) 171
Letouzé, F., C. Martin, M. Hervieu, A. Maignan, M. Daturi, C. Michel and B. Raveau, A Cr-substituted '1201' superconductor: $Tl_{0.8}(CrO_4)_{0.2}Ba_2CuO_{4.2-\delta}$, **292** (1997) 32
Li, H.C., see Yu, Y., **292** (1997) 197
Li, J.Q., C.C. Lam, J. Feng and K.C. Hung, Effects of Sn doping in $Hg_{1-x}Sn_xBa_2Ca_2Cu_3O_{8+\delta}$ superconductors, **292** (1997) 295
Li, L., see Yu, Y., **292** (1997) 197
Li, Y. and O. Rapp, Hall resistivity in the normal state of the $Y_{1-2x}Ca_xTh_xBa_2Cu_3O_{7-\delta}$ system, **292** (1997) 239
Lin, J., see Wu, X.S., **292** (1997) 248
Lindén, J., see Karlemo, T., **292** (1997) 225
Ling, F.Y., see Ge, Y., **292** (1997) 59
Lippmaa, M., see Karlemo, T., **292** (1997) 225
Logvenov, G.Yu., P. Müller, M.V. Kartsovnik and H. Müller, Interlayer resistance and thermoelectric power as a probe of the Josephson coupling in layered superconductors, **292** (1997) 279
López, J., see Muné, P., **292** (1997) 48

Ma, L.P., see Yu, Y., **292** (1997) 197
Macfarlane, J.C., see Hao, L., **292** (1997) 315
Maglevanny, I.I., see Shmelev, G.M., **292** (1997) 73
Maignan, A., see Letouzé, F., **292** (1997) 32
Marciniak, H., see Kováč, P., **292** (1997) 322
Martin, C., see Letouzé, F., **292** (1997) 32
Mathew, V., see Srivastava, G.P., **292** (1997) 83
McConnell, A.W., T. Timusk, A. Dabkowski and H.A. Dabkowska, Temperature dependence of the FIR reflectance of $LaSrGaO_4$, **292** (1997) 233
Merkt, U., see Dieckmann, N., **292** (1997) 133
Michel, C., see Letouzé, F., **292** (1997) 32
Minnhagen, P., see Holmlund, K., **292** (1997) 255
Morris, D.E., see Sinha, A.P.B., **292** (1997) 65
Mulet, R., see Altshuler, E., **292** (1997) 39
Müller, H., see Logvenov, G.Yu., **292** (1997) 279
Müller, P., see Logvenov, G.Yu., **292** (1997) 279
Muné, P., J. López and E. Altshuler, Temperature dependence of some intragranular parameters in BSCCO polycrystalline superconductors obtained through the magnetic hysteresis of J_c, **292** (1997) 48

Nakagawa, Z., see Ishida, Y., **292** (1997) 264
Nakanishi, K., see Tsukamoto, A., **292** (1997) 17
Nayak, R.M., see Gupta, S., **292** (1997) 183
Nie, J.C., see Huang, M.Q., **292** (1997) 177
Niinistö, L., see Karlemo, T., **292** (1997) 225

Ono, A., M. Tsutsumi and Y. Yajima, High-pressure synthesis of superconducting $BSr_2(Ho,Ca)Cu_2O_7$, **292** (1997) 129

Pachla, W., see Kováč, P., **292** (1997) 322
Padalia, B.D., see Gupta, S., **292** (1997) 183
Pasquier, C., see Friemel, S., **292** (1997) 273
Prakash, O., see Gupta, S., **292** (1997) 183

Qin, M.J., see Yu, Y., **292** (1997) 197
Qiu, L., see Ge, Y., **292** (1997) 59
Quinton, W.A.J. and F. Baudenbacher, Deposition of biaxially aligned YSZ films on inclined polycrystalline metallic substrates for $YBa_2Cu_3O_{7-\delta}$ tapes, **292** (1997) 243
Quirion, G., see Salamati, H., **292** (1997) 79

Rapp, O., see Li, Y., **292** (1997) 239
Raveau, B., see Letouzé, F., **292** (1997) 32
Razavi, F.S., see Salamati, H., **292** (1997) 79

Ren, C., see Ge, Y., **292** (1997) 59
Ruan, K.Q., see Jin, H., **292** (1997) 211

Salamati, H., F.S. Razavi and G. Quirion, Effect of pressure on the superconductivity of ZrRuP, **292** (1997) 79
Sasakura, H., New members of Sr-free Bi-2201 cuprates: $Bi_2(La,A)_2CuO_z$ (A = Na and K), **292** (1997) 125
Savin, W., see Tyson, T.A., **292** (1997) 163
Sawaoka, A.B., see Ishida, Y., **292** (1997) 264
Shiohara, Y., see Ishida, Y., **292** (1997) 264
Shmelev, G.M., I.I. Maglevanny and A.S. Bulygin, Current–voltage characteristic of asymmetric superlattice, **292** (1997) 73
Singh, K.K., see Sinha, A.P.B., **292** (1997) 65
Sinha, A.P.B., K.K. Singh and D.E. Morris, 123 + CuO → 124 conversion slowed by lanthanum substitution, **292** (1997) 65
Srivastava, G.P., V. Mathew and A.G. Vedeshwar, Studies on high-T_c superconducting microstrip resonator, **292** (1997) 83
Suba, R., see Gupta, S., **292** (1997) 183

Tanabe, K., see Tsukamoto, A., **292** (1997) 17
Tanabe, K., see Wu, X.-J., **292** (1997) 89
Tatsuki, T., see Wu, X.-J., **292** (1997) 89
Timusk, T., see McConnell, A.W., **292** (1997) 233
Tsukamoto, A., J.G. Wen, K. Nakanishi and K. Tanabe, Growth and ozone oxidation of the $SrCuO_2/CaCuO_2$ superlattices, **292** (1997) 17
Tsutsumi, M., see Ono, A., **292** (1997) 129
Tyson, T.A., J.F. Federici, D. Chew, A.R. Bishop, L. Furenlid, W. Savin and W. Wilber, Local structural and electronic changes accompanying photodoping in $YBa_2Cu_3O_{6+x}$, **292** (1997) 163

Vargas, J.L., N. Zhang, D.L. Kaiser and S.E. Babcock, Systematic copper concentration variations along grain boundaries in bulk-scale $YBa_2Cu_3O_{7-\delta}$ bicrystals, **292** (1997) 1
Vedeshwar, A.G., see Srivastava, G.P., **292** (1997) 83

Wang, C.Y., see Jin, H., **292** (1997) 211
Welp, U., see Chmaissem, O., **292** (1997) 305
Wen, J.G., see Tsukamoto, A., **292** (1997) 17
Westerholt, K., see Brinkmann, M., **292** (1997) 104
Wilber, W., see Tyson, T.A., **292** (1997) 163
Wu, P.J., see Huang, M.Q., **292** (1997) 177
Wu, X.-J., T. Tatsuki, S. Adachi and K. Tanabe, Structural study on high-pressure synthesized $(Hg,Tl)_2Ba_4Cu_2CO_3O_8$ compound, **292** (1997) 89
Wu, X.S., S.S. Jiang, W.M. Chen, J. Lin and X. Jin, Structural changes of $LaBa_2Cu_{3-y}Fe_yO_x$ cuprates with $0.0 \leq y \leq 0.50$, **292** (1997) 248

Xu, C.Y., see Jin, H., **292** (1997) 211

Yajima, Y., see Ono, A., **292** (1997) 129
Yakhmi, J.V., see Gupta, S., **292** (1997) 183
Yamada, Y., see Ishida, Y., **292** (1997) 264
Yang, T., see Huang, M.Q., **292** (1997) 177
Yao, X.X., see Ge, Y., **292** (1997) 59
Yao, X.X., see Yu, Y., **292** (1997) 197
Yilmazlar, M., see Dzhafarov, T.D., **292** (1997) 140
Yu, F.C., see Kao, H.-C.I., **292** (1997) 53
Yu, Y., Z.Y. Zheng, M.J. Qin, X.X. Yao, L.P. Ma, H.C. Li and L. Li, Characteristic exponents near vortex–glass temperature in $GdBa_2Ca_3Cu_{7-\delta}$ film, **292** (1997) 197

Zhang, N., see Vargas, J.L., **292** (1997) 1
Zhang, Y.H., see Jin, H., **292** (1997) 211
Zhao, Z.X., see Huang, M.Q., **292** (1997) 177
Zheng, Z.Y., see Yu, Y., **292** (1997) 197
Zuo, J., see Jin, H., **292** (1997) 211

ELSEVIER

Physica C 292 (1997) 342–343

PHYSICA C

Analytic Subject Index to Volume 292

AC-susceptibility
–of $YBa_2Cu_3O_7$ 59
AG electron migration
–in BiPbSrCaCuO 140
Annealing
–of $Pb_2CuSr_2[Eu/Ca]Cu_2O_8$ 225
–of $YBa_2Cu_3O_7$ bicrystal junctions 177
Asymmetric superlattice 73

Charge transfer
–in $(Pb_{0.65}Sr_{0.35})Sr_2(R_{0.5}Ca_{0.5})Cu_2O_y$ 211
Coherence length
–in $YBa_2Cu_3O_{6.7}$ 218
Composition
–of BiPbSrCaCuO 140
Copper concentration variation
–in $YBa_2Cu_3O_{7-\delta}$ bicrystals 1
Critical current density 39
–of Bi(2223)/Ag tapes 322
–of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10-x}$ 48
–of $GdBa_2Ca_3Cu_{7-\delta}$ film 197
–of $YBa_2Cu_3O_7$ multi-layer 133
–of $YBa_2Cu_3O_{7-\delta}$ tapes 243
Critical current 147
Critical state model 59
Critical state 147
Crystal structure
–of $(Hg_{1-x}Re_x)Ba_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 305
–of BiPbSrCaCuO 140
Cu-O chain ordering
–in $YBa_2Cu_3O_{6+x}$ 286
Cu-O chains
–in $YBa_2Cu_3O_{6+x}$ 286
–of $YBa_2Cu_3O_{6+x}$ 163
Cu-O planes
–of $YBa_2Cu_3O_{6+x}$ 163
CuO_2-planes 53
–in $Eu_{1.4}Ce_{0.6}Ru_{1-x}Fe_xSr_2Cu_2O_{10-\delta}$ 97

d-wave superconductor 171
2D Coulomb gas simulations 255
2D superconductors 255
3d-metal substitution
–in $Pr_{2-x}Ce_xCuO_{4+\delta}$ single crystal 104
Defect structure
–of $(Hg_{1-x}Re_x)Ba_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 305
Doping effects
–on $Hg_{1-x}Sn_xBa_2Ca_2Cu_3O_{8+\delta}$ 295

Effect of pressure
–on ZrRuP 79
Electrical resistivity
–of κ-$(BEDTTTF)_2Cu(NCS)_2$ 273
–of $Bi_2(La,A)_2CuO$ 125
–of $Bi_2Sr_2Ca_1Cu_2O_x$ whiskers 189
–of $Hg_{1-x}Sn_xBa_2Ca_2Cu_3O_{8+\delta}$ 295
–of $Pr_{2-x}Ce_xCuO_{4+\delta}$ single crystal 104
Electron density
–in $Cd_{1.85-x}Pr_xCe_{0.15}CuO_y$ 183
Electron doped superconductors 104
Electron phonon coupling
–in ZrRuP 79

Facets
–on $YBa_2Cu_3O_{7-\delta}$ bicrystals 1
Far-infrared spectra
–on $LaSrGaO_4$ single crystal 233
Field distribution 147
Fluctuation effects 315
Flux diffusion
–in $YBa_2Cu_3O_7$ 59
Flux distribution 39
Flux pinning 39
–in $YBa_2Cu_3O_{6+x}$ 286
Formation
–of $YBa_2Cu_4O_8$ 65
Full penetration field
–of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10-x}$ grains 48

Grain alignment (texturing)
–in Bi(2223)/Ag tapes 322
Grain boundaries
–in $YBa_2Cu_3O_{7-\delta}$ bicrystals 1
Grain boundary
–in Y-Ba-Cu-O 315
Growth mechanism
–of $YBa_2Cu_3O_x$ film 264

HREM
–on $Tl_{0.8}(CrO_4)_{0.2}Ba_2CuO_{4.2-\delta}$ 32
HRTEM
–on $(Hg_{0.5},Tl_{0.5})_2Ba_4Cu_2CO_3O_8$ 89
Hall density
–of $Y_{1-2x}Ca_xTh_xBa_2Cu_3O_{7-\delta}$ 239
Hall resistivity
–of $Y_{1-2x}Ca_xTh_xBa_2Cu_3O_{7-\delta}$ 239
Hastelloy substrates 243
High-pressure synthesis
–of $B_{1-y}Cu_ySr_2Ho_{1-x}Ca_xCu_2O_z$ 129
Hole concentration
–in $Gd_{1-x}Pr_xBa_2Cu_3O_{7-y}$ 53
–in $R_{0.8}Pr_{0.2}Ba_2Cu_3O_{7-y}$ 53
Hole localization
–in $Gd_{1-x}Pr_xBa_2Cu_3O_{7-y}$ 53
–in $R_{0.8}Pr_{0.2}Ba_2Cu_3O_{7-y}$ 53

IV characteristics
–of $GdBa_2Ca_3Cu_{7-\delta}$ film 197
IV-characteristics 73, 255
–of $YBa_2Cu_3O_7$ bicrystal junctions 177
Impedance Greens functions 83
Intercalated layers
–in $Bi_2Sr_2Ca_1Cu_2O_x$ whiskers 189
Intergrowth structure
–in $(Hg_{0.5},Tl_{0.5})_2Ba_4Cu_2CO_3O_8$ 89
Interlayer resistance
–in κ-$(d_8$,BEDT-TTF$)_2Cu(NCS)_2$ 279
–in $Bi_2Sr_2CaCu_2O_{8+x}$ 279
Ion size effect
–in $(Pb_{0.65}Sr_{0.35})Sr_2(R_{0.5}Ca_{0.5})Cu_2O_y$ 211
Iron doping
–in $LaBa_2Cu_3O_x$ 248

Josephson coupling
–in κ-$(d_8$,BEDT-TTF$)_2Cu(NCS)_2$ 279
–in $Bi_2Sr_2CaCu_2O_{8+x}$ 279
Josephson effect 171
–in κ-$(BEDTTTF)_2Cu(NCS)_2$ 273
–in $YBa_2Cu_3O_{6.7}$ 218
Josephson junction array 147
Josephson junction
–in Y-Ba-Cu-O 315

Kinetic equation 73
Kinetics 225

Liquid phase epitaxy
–of $YBa_2Cu_3O_x$ film 264
Low temperature SEM
–on $YBa_2Cu_3O_7$ multi-layer 133
Low temperature SLM
–on $YBa_2Cu_3O_7$ multi-layer 133
Lower critical field H_{c1}
–of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10-x}$ 48

Magnetic ordering
–in $Eu_{1.4}Ce_{0.6}Ru_{1-x}Fe_xSr_2Cu_2O_{10-\delta}$ 97
Magnetic susceptibility
–of $Bi_2(La,A)_2CuO$ 125
–of $Tl_{0.8}(CrO_4)_{0.2}Ba_2CuO_{4.2-\delta}$ 32
Magnetic vortex nucleation 117
Magnetization 39
–of $(Hg_{1-x}Re_x)Ba_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 305
–of $Eu_{1.4}Ce_{0.6}Ru_{1-x}Fe_xSr_2Cu_2O_{10-\delta}$ 97
–of $YBa_2Cu_3O_{6.7}$ 218
Microstrip resonator 83
Microstructure
–of $Hg_{1-x}Sn_xBa_2Ca_2Cu_3O_{8+\delta}$ 295
–of $LaBa_2Cu_{3-y}Fe_yO_x$ 248
Mixed state
–in κ-$(BEDTTTF)_2Cu(NCS)_2$ 273
Mössbauer spectroscopy
–on $Pb_2CuSr_2[Eu/Ca]Cu_2O_8$ 225

NMR
–on $YBa_2Cu_3O_{6+x}$ 286

Optical reflectivity
–of $LaSrGaO_4$ single crystal 233
Organic superconductor 273
Oxygen annealing
–of $B_{1-y}Cu_ySr_2Ho_{1-x}Ca_xCu_2O_z$ 129
Oxygen stoichiometry
–in $SrCuO_2/CaCuO_2$ superlattices 17
–in $YBa_2Cu_4O_8$ 65
–of $Cd_{1.85-x}Pr_xCe_{0.15}CuO_y$ 183
Ozone oxidation
–of $SrCuO_2/CaCuO_2$ superlattices 17

Phase transition
–in $LaBa_2Cu_{3-y}Fe_yO_x$ 248
Phonon spectrum
–of $LaSrGaO_4$ single crystal 233
Photodoping
–in $YBa_2Cu_3O_{6+x}$ 163
Pinning energy
–in $GdBa_2Ca_3Cu_{7-\delta}$ film 197
Pinning force
–in Bi(2223)/Ag tapes 322
Potential distribution 189
Pressure dependence of T_c
–of ZrRuP 79
Proximity effect 171

Raman scattering
–on $(Pb_{0.65}Sr_{0.35})Sr_2(R_{0.5}Ca_{0.5})Cu_2O_y$ 211
Resistive transition 189

SEM
–on $YBa_2Cu_3O_7$ multi-layer 133
Scanning electron microscopy
–on Bi(2223)/Ag tapes 322
Seed film 264
Shapiro step 315
Spectral domain method 83
Spin gap opening
–in $YBa_2Cu_3O_{6+x}$ 286
Spin-orbit scattering 171
Stem
–on $YBa_2Cu_3O_{7-\delta}$ bicrystals 1
Structural phase transition
–in $Nd_{1.85}Ce_{0.15}CuO_{3.965}$ 203
–in $Nd_{1.85}Ce_{0.15}CuO_4$ 203
–in Nd_2CuO_4 203
Structure
–of $(Hg_{0.5},Tl_{0.5})_2Ba_4Cu_2CO_3O_8$ 89
–of $(Pb_{0.65}Sr_{0.35})Sr_2(R_{0.5}Ca_{0.5})Cu_2O_y$ 211
–of $B_{1-y}Cu_ySr_2Ho_{1-x}Ca_xCu_2O_z$ 129
–of $Bi_2(La,A)_2CuO$ 125
–of $Cd_{1.85-x}Pr_xCe_{0.15}CuO_y$ 183
–of $LaBa_2Cu_{3-y}Fe_yO_x$ 248
–of $Nd_{1.85}Ce_{0.15}CuO_{3.965}$ 203
–of $Nd_{1.85}Ce_{0.15}CuO_4$ 203
–of Nd_2CuO_4 203
–of $Tl_{0.8}(CrO_4)_{0.2}Ba_2CuO_{4.2-\delta}$ 32
–of $YBa_2Cu_3O_x$ films 264
–of $YBa_2Cu_3O_{6+x}$ 163
–of $YBa_2Cu_3O_{7-\delta}$ tapes 243
Substitution effect
–in $Y_{1-2x}Ca_xTh_xBa_2Cu_3O_{7-\delta}$ 239
–in $YBa_2Cu_4O_8$ 65
Substitution effects
–in $(Hg_{1-x}Re_x)Ba_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 305
–in $B_{1-y}Cu_ySr_2Ho_{1-x}Ca_xCu_2O_z$ 129
–in $Pb_2CuSr_2[Eu/Ca]Cu_2O_8$ 225
Superconducting devices 83
Suppression of superconducting
–in $Gd_{1-x}Pr_xBa_2Cu_3O_{7-y}$ 53
–in $R_{0.8}Pr_{0.2}Ba_2Cu_3O_{7-y}$ 53
Synthesis
–of $Bi_2(La,A)_2CuO$ 125
–of $Hg_{1-x}Sn_xBa_2Ca_2Cu_3O_{8+\delta}$ 295
–of $SrCuO_2/CaCuO_2$ superlattices 17
–of $Tl_{0.8}(CrO_4)_{0.2}Ba_2CuO_{4.2-\delta}$ 32
–of $YBa_2Cu_3O_7$ bicrystal junctions 177
–of $YBa_2Cu_3O_{7-\delta\ tapes}$ 243

T-O transition 203
TEM
–on $Nd_{1.85}Ce_{0.15}CuO_{3.965}$ 203
–on $Nd_{1.85}Ce_{0.15}CuO_4$ 203
–on Nd_2CuO_4 203
Thermally induced fluctuations 117
Thermoelectric power
–of κ-$(d_8$,BEDT-TTF$)_2Cu(NCS)_2$ 279
–of $Bi_2Sr_2CaCu_2O_{8+x}$ 279
Thin film substrate 233
Transmission electron microscopy
–on Bi(2223)/Ag tapes 322
Transport properties
–of $Pr_{2-x}Ce_xCuO_{4+\delta}$ single crystal 104

Vortex dynamics 147
Vortex free energy 117
Vortex-glass transition
–in $GdBa_2Ca_3Cu_{7-\delta}$ film 197

Weak ferromagnetism
–in $Eu_{1.4}Ce_{0.6}Ru_{1-x}Fe_xSr_2Cu_2O_{10-\delta}$ 97

X-ray diffraction
–of $Bi_2(La,A)_2CuO$ 125
–on BiPbSrCaCuO 140
–on $SrCuO_2/CaCuO_2$ superlattices 17
XAFS
–of $YBa_2Cu_3O_{6+x}$ 163
XRD pattern simulation 89
Xanes
–on $Cd_{1.85-x}Pr_xCe_{0.15}CuO_y$ 183

ELSEVIER

Physica C 292 (1997) 344–345

PHYSICA C

Materials Index to Volume 292

$B_{1-y}Cu_ySr_2Ho_{1-x}Ca_xCu_2O_z$
–high-pressure synthesis 129
–oxygen annealing 129
–structure 129
–substitution effects 129
Bi(2223)/Ag tapes
–critical current density 322
–grain alignment (texturing) 322
–pinning force 322
–scanning electron microscopy 322
–transmission electron microscopy 322
$Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10-x}$ grains
–full penetration field 48
$Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10-x}$
–critical current density 48
–lower critical field H_{c1} 48
$Bi_2(La,A)_2CuO$
–electrical resistivity 125
–magnetic susceptibility 125
–structure 125
–synthesis 125
–X-ray diffraction 125
$Bi_2Sr_2Ca_1Cu_2O_x$ whiskers
–electrical resistivity 189
–intercalated layers 189
$Bi_2Sr_2CaCu_2O_{8+x}$
–interlayer resistance 279
–Josephson coupling 279
–thermoelectric power 279
BiPbSrCaCuO
–AG electron migration 140
–composition 140
–crystal structure 140
–X-ray diffraction 140

$Cd_{1.85-x}Pr_xCe_{0.15}CuO_y$
–electron density 183
–oxygen stoichiometry 183
–structure 183
–xanes 183

$Eu_{1.4}Ce_{0.6}Ru_{1-x}Fe_xSr_2Cu_2O_{10-\delta}$
–CuO_2-planes 97
–magnetic ordering 97
–magnetization 97
–weak ferromagnetism 97

$Gd_{1-x}Pr_xBa_2Cu_3O_{7-y}$
–hole concentration 53
–hole localization 53
–suppression of superconducting 53
$GdBa_2Ca_3Cu_{7-\delta}$ film
–critical current density 197
–IV characteristics 197
–pinning energy 197
–vortex-glass transition 197

$(Hg_{0.5},Tl_{0.5})_2Ba_4Cu_2CO_3O_8$
–HRTEM 89
–intergrowth structure 89
–structure 89
$(Hg_{1-x}Re_x)Ba_2Ca_{n-1}Cu_nO_{2n+2+\delta}$
–crystal structure 305
–defect structure 305
–magnetization 305
–substitution effects 305
$Hg_{1-x}Sn_xBa_2Ca_2Cu_3O_{8+\delta}$
–doping effects 295
–electrical resistivity 295
–microstructure 295
–synthesis 295

κ-$(d_8$,BEDT-TTF$)_2Cu(NCS)_2$
–interlayer resistance 279
–Josephson coupling 279
–thermoelectric power 279
κ-$(BEDTTTF)_2Cu(NCS)_2$
–electrical resistivity 273
–Josephson effect 273
–mixed state 273

$LaBa_2Cu_3O_x$
–iron doping 248
$LaBa_2Cu_{3-y}Fe_yO_x$
–microstructure 248
–phase transition 248
–structure 248
$LaSrGaO_4$ single crystal
–far-infrared spectra 233
–optical reflectivity 233
–phonon spectrum 233

$Nd_{1.85}Ce_{0.15}CuO_{3.965}$
–structural phase transition 203
–structure 203
–TEM 203
$Nd_{1.85}Ce_{0.15}CuO_4$
–structural phase transition 203
–structure 203
–TEM 203
Nd_2CuO_4
–structural phase transition 203
–structure 203
–TEM 203

$(Pb_{0.65}Sr_{0.35})Sr_2(R_{0.5}Ca_{0.5})Cu_2O_y$
–charge transfer 211
–ion size effect 211
–Raman scattering 211
–structure 211
Pb_2CuSr_2[Eu/Ca]Cu_2O_8
–annealing 225
–Mössbauer spectroscopy 225
–substitution effects 225
$Pr_{2-x}Ce_xCuO_{4+\delta}$ single crystal
–3d-metal substitution 104
–electrical resistivity 104
–transport properties 104

$R_{0.8}Pr_{0.2}Ba_2Cu_3O_{7-y}$
–hole concentration 53
–hole localization 53
–suppression of superconducting 53

$SrCuO_2/CaCuO_2$ superlattices
–oxygen stoichiometry 17
–ozone oxidation 17
–synthesis 17
–X-ray diffraction 17

$Tl_{0.8}(CrO_4)_{0.2}Ba_2CuO_{4.2-\delta}$
–HREM 32
–magnetic susceptibility 32
–structure 32
–synthesis 32

Y-Ba-Cu-O
–grain boundary 315
–Josephson junction 315
$Y_{1-2x}Ca_xTh_xBa_2Cu_3O_{7-\delta}$
–Hall density 239
–Hall resistivity 239
–substitution effect 239
$YBa_2Cu_3O_x$ film
–growth mechanism 264
–liquid phase epitaxy 264
$YBa_2Cu_3O_x$ films
–structure 264
$YBa_2Cu_3O_{6+x}$
–Cu-O chain ordering 286
–Cu-O chains 163
–Cu-O chains 286
–Cu-O planes 163
–flux pinning 286
–NMR 286
–photodoping 163
–spin gap opening 286
–structure 163
–XAFS 163
$YBa_2Cu_3O_{6.7}$
–coherence length 218
–Josephson effect 218
–magnetization 218
$YBa_2Cu_3O_7$ bicrystal junctions
–annealing 177
–IV-characteristics 177
–synthesis 177
$YBa_2Cu_3O_7$ multi-layer
–critical current density 133
–low temperature SEM 133
–low temperature SLM 133
–SEM 133
$YBa_2Cu_3O_7$
–AC-susceptibility 59
–flux diffusion 59
$YBa_2Cu_3O_{7-\delta}$ tapes
–critical current density 243
–structure 243
–synthesis 243
$YBa_2Cu_3O_{7-\delta}$ bicrystals
–copper concentration variation 1
–facets 1
–grain boundaries 1
–stem 1
$YBa_2Cu_4O_8$
–formation 65
–oxygen stoichiometry 65
–substitution effect 65

ZrRuP
–effect of pressure 79
–electron phonon coupling 79
–pressure dependence of T_c 79

ELSEVIER

Physica C 292 (1997) 161–162

PHYSICA C

Cumulative Author Index to Volume 292

Abou-Sekkina, M., **291**, 97
Adachi, H., **291**, 34
Adachi, S., **291**, 59, 90
Adachi, S., **292**, 89
Ali, S., **291**, 49
Altshuler, E., **292**, 39, 48
Asaf, U., **292**, 97
Asano, H., **291**, 97

Babcock, S.E., **292**, 1
Bach, H., **292**, 104
Baldha, G.J., **291**, 25
Berthon, J., **291**, 85
Bock, A., **292**, 133
Brinkmann, M., **292**, 104
Bulygin, A.S., **292**, 73
Bush, A.A., **291**, 155

Cai, C.B., **292**, 59
Chandran, M., **292**, 147
Chikumoto, N., **291**, 79
Chung, H., **291**, 149
Colonescu, L., **291**, 85

Daturi, M., **292**, 32
Dieckmann, N., **292**, 133
Ding, Q., **292**, 59
Ding, S.Y., **292**, 59
Dou, S.X., **291**, 1
Doyle, R.A., **291**, 113
Dzhafarov, T.D., **292**, 140

Eastell, C., **291**, 49
Felner, I., **292**, 97
Friemel, S., **292**, 133
Fu, Y.X., **292**, 59
Fukuoka, A., **291**, 90

Ge, Y., **292**, 59
Geetha Kumary, T., **291**, 41
Gerber, R., **292**, 133
Gilchrist, J., **291**, 132
Goeckner, H.P., **291**, 8
Goringe, M., **291**, 49
Greaves, C., **291**, 104
Guan, W., **292**, 53

Hamid, H.A., **291**, 49
Hampshire, D.P., **291**, 49
Hariharan, Y., **291**, 41
Hervieu, M., **292**, 32
Hikihara, T., **291**, 34
Hirane, Y., **291**, 34
Horvat, J., **291**, 1
Hua, L., **291**, 149
Huebener, R.P., **292**, 133

Jirsa, M., **291**, 17
Joshi, A.G., **291**, 25

Kaiser, D.L., **292**, 1
Kalavathi, S., **291**, 41
Kamiyama, T., **291**, 97
Kandyel, E., **291**, 97
Kao, H.-C.I., **292**, 53
Kikuchi, M., **291**, 90
Kim, H., **291**, 149
Ko, J., **291**, 149
Konczykowski, M., **291**, 113
Kouvel, J.S., **291**, 8
Kuberkar, D.G., **291**, 25
Kulkarni, R.G., **291**, 25
Kurmaev, E.Z., **291**, 104
Kuzovlev, Yu.E., **292**, 117

Letouzé, F., **292**, 32
Levin, A.A., **291**, 155
Li, H.C., **291**, 143
Li, L., **291**, 143
Ling, F.Y., **292**, 59
Liu, H.K., **291**, 1
López, J., **292**, 48

Ma, L.P., **291**, 143
Maglevanny, I.I., **292**, 73
Maignan, A., **292**, 32
Martin, C., **292**, 32
Mathew, V., **292**, 83
Merkt, U., **292**, 133
Michel, C., **292**, 32
Morozov, N., **291**, 113
Morris, D.E., **292**, 65

Mulet, R., **292**, 39
Muné, P., **292**, 48
Murakami, M., **291**, 79

Naito, M., **291**, 67
Nakanishi, K., **292**, 17

Obaidat, I.M., **291**, 8
Ohashi, S., **291**, 34
Ono, A., **292**, 129

Palmer, H.M., **291**, 104
Prabhakaran, D., **291**, 73
Půst, L., **291**, 17

Qiao, G., **291**, 149
Qiu, L., **292**, 59
Quirion, G., **292**, 79

Radhakrishnan, T.S., **291**, 41
Raveau, B., **292**, 32
Razavi, F.S., **292**, 79
Ren, C., **292**, 59

Salamati, H., **292**, 79
Sasakura, H., **292**, 125
Sato, H., **291**, 67
Shepelev, Yu.F., **291**, 155
Shmelev, G.M., **292**, 73
Singh, K.K., **292**, 65
Sinha, A.P.B., **292**, 65
Slaski, M., **291**, 104
Smolin, Yu.I., **291**, 155
Srivastava, G.P., **292**, 83
Subramanian, C., **291**, 73
Suryanarayanan, R., **291**, 85
Syono, Y., **291**, 90

Tamura, T., **291**, 59
Tanabe, K., **291**, 59, 90
Tanabe, K., **292**, 17, 89
Tatsuki, T., **291**, 59
Tatsuki, T., **292**, 89
Tokiwa-Yamamoto, A., **291**, 59, 90
Trofimova, V.A., **291**, 104

Tsukamoto, A., **292**, 17
Tsutsumi, M., **292**, 129

Ueda, Y., **291**, 34

Valsakumar, M.C., **291**, 41
Vargas, J.L., **292**, 1
Vedeshwar, A.G., **292**, 83

Wang, R.L., **291**, 143
Wang, W.G., **291**, 1
Wen, J.G., **292**, 17
Westerholt, K., **292**, 104
Wu, X.-J., **291**, 59
Wu, X.-J., **292**, 89

Yajima, Y., **292**, 129
Yamamoto, H., **291**, 67
Yao, X.X., **292**, 59
Yarmoshenko, Yu.M., **291**, 104
Yilmazlar, M., **292**, 140
Yoo, J., **291**, 149
Yoshioka, J., **291**, 79
Yu, F.C., **292**, 53

Zeimetz, B., **291**, 1
Zeldov, E., **291**, 113
Zelenay, I., **291**, 85
Zhang, N., **292**, 1
Zheng, D.N., **291**, 49